

## Technical Data Sheet

### *Moplen* HE649T



Polypropylene, Homopolymer

#### Product Description

LyondellBasell Australia's Polypropylene grade *Moplen* HE649T is a high flow homopolymer with improved impact and clarity. *Moplen* HE649T has been formulated for use in houseware applications where rapid cycle times are required together with a balanced level of mechanical properties.

<b>Application</b>	Containers; TWIM Food Containers
<b>Market</b>	Rigid Packaging
<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Fast Cycle (Production); Good Moldability; High Flow; Homopolymer; Nucleated

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	50	g/10 min	ISO 1133-1
Density, (23 °C, Method D)	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Flexural Modulus	1700	MPa	ISO 178
Tensile Stress at Yield	35	MPa	ISO 527-1, -2
<b>Impact</b>			
Notched Izod Impact Strength, (23 °C)	2.4	kJ/m <sup>2</sup>	ISO 180/1A
<b>Hardness</b>			
Shore Hardness, (Shore D)	75		ISO 868
<b>Thermal</b>			
Vicat Softening Temperature	148	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2